

1393

77A- 30-039-21919
514- 30-039-24334

E

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SE Sec. 33 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #77A, #514

cps 1620w

Elevation 6227 Completion Date 7/28/81 Total Depth 526' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 180' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 5000 lbs.

Depths anodes placed: 500', 490', 480', 460', 450', 415', 405', 395', 350', 300'

Depths vent pipes placed: 520'

Vent pipe perforations: 380'

Remarks: gb #1

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OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐

Completion Date 7-28-81

Well Name <u>S.J. 29-7 #77A, #514</u>		Location <u>SE 33-29-7</u>		CPS No. <u>1620 W</u>	
Type & Size Bit Used <u>6 3/4" mill tooth</u>		Anodes = <u>2" x 60" Duriron</u>		Work Order No. <u>57949-21-50-20-</u>	
Anode Hole Depth <u>526 log 526</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>Approx 5000</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	# 1 <u>500</u>	# 2 <u>490</u>	# 3 <u>480</u>	# 4 <u>460</u>	# 5 <u>450</u>
	# 6 <u>415</u>	# 7 <u>405</u>	# 8 <u>395</u>	# 9 <u>350</u>	# 10 <u>300</u>
Anode Output (Amps)	# 1 <u>1.8</u>	# 2 <u>1.8</u>	# 3 <u>1.8</u>	# 4 <u>2.0</u>	# 5 <u>2.1</u>
	# 6 <u>1.9</u>	# 7 <u>1.9</u>	# 8 <u>2.7</u>	# 9 <u>2.6</u>	# 10 <u>2.2</u>
Anode Depth	# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance	Volts <u>12.2</u>		Amps <u>11.0</u>		Ohms <u>1.1</u>
No. 8 C.P. Cable Used		No. 2 C.P. Cable Used			

Remarks: STATIC 4s 600'E = .85 - 290 MA + UNION = OK

Damp 150 FT Drilled 165 waited no water very damp 180' Drilled 185 waited wet cuttings, caught water sample next AM. Picked up so much water by 400' cuttings samples were mixed. Drilled to 526' Logged 526' INST 520' vent pipe with 380 FT perf. Slurried Approx 5000 lbs bulk coke. Total water Approx 80 GPM.

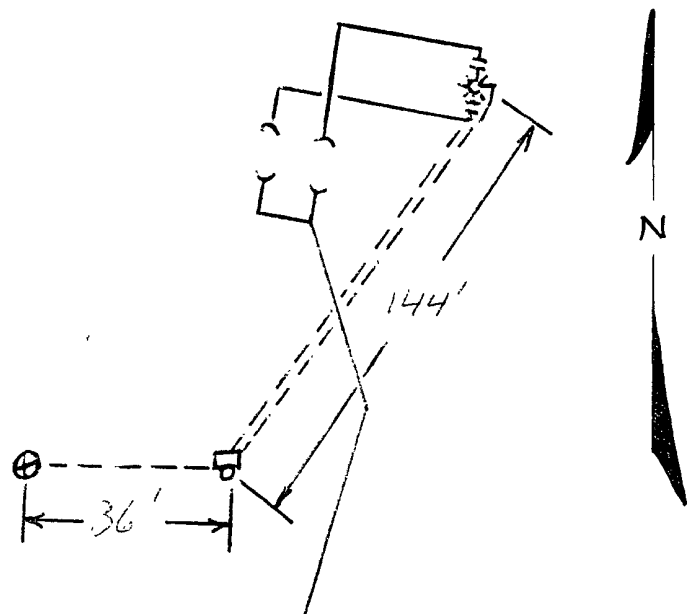
Hole depth = +26' ✓
extra cable = 164' ✓
ditch & cable = 180' ✓
Stub Pole ✓
400 16 A Rect ✓

All Construction Completed

Robert J. Baham
(Signature)

GROUND BED LAYOUT SKETCH

	Reg.	C.T.
7-28	8	3



DISTRIBUTION:

WHITE - Division Corrosion Office
YELLOW - Area Corrosion Office
PINK - Originator File

u227

1620W SE 33-29-7

SAN JUAN 29-7 #77A 57949-21-50-20

STATIC @ 600' E = .85 20 MAT UNION = OK

7-28-81 11 hrs

MW	gals/mol
16.04	C1 6.4
30.07	C2 10.12
44.10	C3 10.42
58.12	iC4 12.38
58.12	nC4 11.93
72.15	iC5 13.85
72.15	nC5 13.71
86.18	iC6 15.50
86.18	C6 15.57
100.21	iC7 17.2
100.21	C7 17.46
114.23	C8 19.39
28.05	C2 9.64
42.08	C3 9.67

Stub
4076

MW	MISC	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

180 .7 360 .6

.6 .6

90 .6 70 .6

.6 .6

200 1.0 80 .6

1.2 .6

10 .9 90 .7 .83

.9 .6 - 8

20 .4 400 1.1 1.3

.3 .8 1.0 - 7

30 .4 10 .7 .94

.4 .8 .96 - 6

40 .5 20 .7 .91

.5 .7 .84

50 .5 30 .6 .76

.5 .6 .80

60 .6 40 .6 .79

.7 .7 .83

70 .6 50 .8 1.0 - 5

.5 .8 1.0

80 .6 60 .8 1.0 - 4

.6 .7 .85

90 .6 70 .7 .88

.7 .7 .90

100 .7 80 .8 .94 - 3

.7 .8 .99

110 .7 90 .8 1.0 - 2

.7 .8 1.0

120 .7 100 .8 1.0 - 1

.7 .8 1.0

130 .6 110 .7 .9

.6 .7 .8

140 .6 120 .7 .8

.6 .7 .8

150 .6 130 .7 .8

.6 .7 .8

160 .6 140 .7 .8

.6 .7 .8

DAMP AT 150 FT DRILLED 165

WAITED IN WATER VERY DAMP

180' DRILLED 185' 2 FT IN SHALE

WATER SAMPLE NEXT AM

Picked up so much water

BY 400' cutting samples

became mixed 5 spaces

185 to 400' 400-505

INST 5120 FT VENT PIPE

WITH 380 FT PERF.

SHURRED APPROX 5000

LBS COKE.

① 500 — 1.08 — 1.8

② 490 — 1.01 — 1.8

③ 480 — 1.00 — 1.8

④ 460 — 1.00 — 2.0

⑤ 450 — 1.12 — 2.1

⑥ 415 .92 — 1.9

⑦ 405 .94 — 1.9

⑧ 395 1.62 — 2.7

⑨ 350 — 1.33 — 2.6

⑩ 300 — 1.24 — 2.2

2.2V @ 1.0A = 1.1 ohms

EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-10314 Date 8-5-81

Operator EPNG Well Name S.J. 29-7 #77A CPS 1620 W--

Location SE 33-29-7 County Rio Arriba State New Mexico

Field Blanco Formation

Sampled From 185'

Date Sampled 7-28-81 By Robert J. Babnick

Tbg. Press. Csg. Surface Csg. Press.

Sodium	ppm	epm	Chloride	ppm	epm
	432	18.8		45	1.3

Calcium	328	16.4	Bicarbonate	162	2.7
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Magnesium	25	2.1	Sulfate	1600	33.3
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Iron	Absent		Carbonate	0	0
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H ₂ S	Absent		Hydroxide	0	0
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cc: R. A. Ullrich
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File

Total Solids Dissolved 2,592

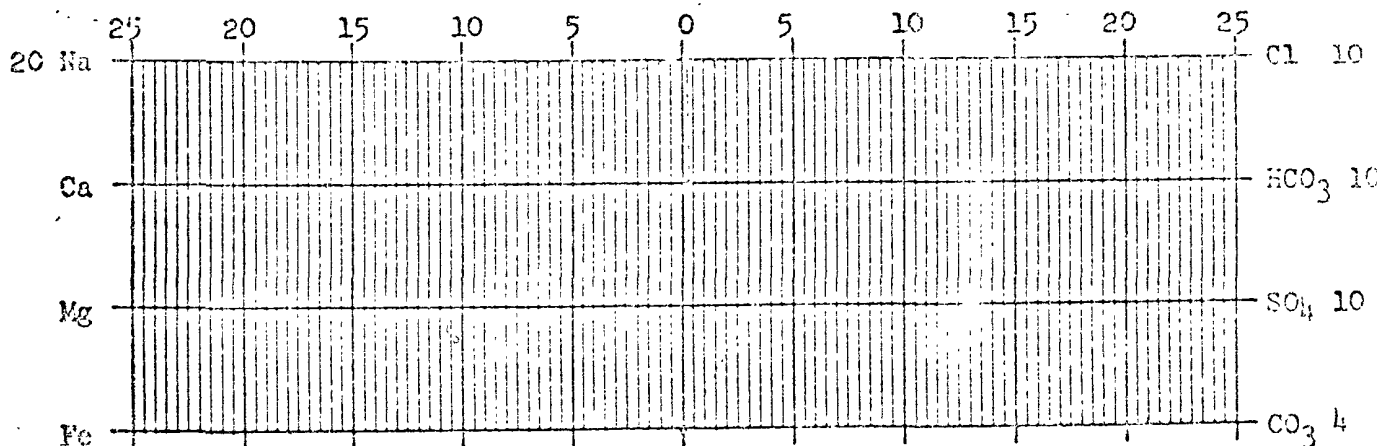
pH 7.85

Sp. Gr. 1.0044 At 60°F

Resistivity 286 ohm-cm at 74°F

Robert J. Babnick
Chemist

R 21



Scale : epm

DAILY DRILLING REPORT

CP5 1620 W 5529-7 #77 H
 LEASE WELL NO. CONTRACTOR *Stary Drilling* RIG NO. REPORT NO. DATE 7-28-81 19

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.
0	10	OB			205	215	SS w/sh			390	400	sh		
10	18.5	SS w/sh			215	335	SS			400	526	Mixed Cuttings		
18.5	19.5	SS			335	340	sh							
19.5	20.5	sh			340	390	SS							

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
S L NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH		

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	Wt.	Vis.				Time	Wt.	Vis.				Time	Wt.	Vis.			

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN

REMARKS -	REMARKS -	REMARKS -
Water at 180		
Logged 526		
TD 526		
Hole making 80 gal per min		

SIGNED: Toolpusher

Al Stary

Company Supervisor